Work-Order ID 71319

Tuesday, June 28, 2011 10:05:06 AM

Page 1

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Required Date: 7/28/2011

Process Plan: _______

Date: //-06-28 Tooling:

Date:

SPC (Y/N):

Date:

Run

Start

Stop

Stop

Sequence ID/ Work Center ID

Operation Description Set Up/ **Run Hours** Tool ID

Tool # Plan

Code

Date:

Accept Qty

Reject Qty

Reject

Insp. Number Stamp

Draw Nbr

Revision Nbr

D3391 Rev H

100

Skidtubes

0.00

Skidtubes

Skidtubes

Memo

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker,

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

, 10-Open wearplate holes of D3391-023 assembly detail section H-H to # Ø0.297" (20 holes) as per Dwg D3391

11-6-29

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W/O:			W	ORK ORDER CHANGE	S				1
DATE STEP Part No:	PROC	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
									
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NCR:		·W	ORK OR	DER NON-CONFORMA	NCE (NCF	₹)			
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Work-Order ID 71319

Tuesday, June 28, 2011 10:05:06 AM



Page 2

Item ID:

D3391-023

Accept



Setup Start

Stop

Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Otv: 1.00

Required Date: 7/28/2011

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan:

Date:

Date:

SPC (Y/N):

Tooling:

Run

Reject

Reject

Sequence ID/ Work Center ID Operation Description Set Up/ **Run Hours** Tool ID

Date:

Date:

Tool # Plan Code

Accept Qty

Qty

Number

Insp. Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

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W/O:			WO	RK ORDER CHANGE	S				•
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Work Order ID 71319

Tuesday, June 28, 2011 10:05:06 AM



Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Reg'd Oty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Start Stop



Required Date: 7/28/2011

QC:

Date:

SPC (Y/N):

Set Up/

Date:

Tool # Plan

Code

Accept Qty

Reject Qty

Run

Reject Number

Insp. Stamp

Sequence ID/ **Work Center ID**

110

120

Quality Control

Operation **Description**

QC5- Inspect part completeness to step on W/O

Memo

Run Hours

0.00 S wloce (30.

0.00

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

Memo

0.00

1 0 SAD 11-06-30

130

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

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W/O:			WO	RK ORDER CHANGE	S				5
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Work Order ID 71319

Tuesday, June 28, 2011 10:05:06 AM



Page 4

Item ID:

D3391-023

Accept



Run

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Oty: 1.00

Reg'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Start

Stop



Required Date: 7/28/2011

Date: _____

SPC (Y/N):

0.00

0.00

Set Up/

Run Hours

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

Sequence ID/ Work Center ID

140

Skidtubes Skidtubes

Skidtubes

Operation

Description

Memo

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & QSI 015.

Adhere for 12 hours)

A/R Sikaflex exp: (2/6) (15 batch#: MC16945

DL. 11/06/30.

150

OC

Ouality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

1 8 BE 11/07/01

160

Skidtubes

Skidtubes

Skidtubes

0.00

Memo

1-Weld crossbolt spacer as per dwg D3391 & QSI 004

2-grind weld flush

0.00

AR MITTY56

1 & BBU

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W/O:	STEP PAR #: Fault Category: Resolution: Disposition: WORK ORDER NON-CONFORMA STEP Description of NC Section A Chief Eng Chief E	S				*			
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Work Order ID 71319

Tuesday, June 28, 2011 10:05:06 AM



Page 5

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Start Run

Stop

Stop

QC:

Required Date: 7/28/2011

Date: _____

SPC (Y/N):

Set Up/

Tool ID

Tool # Plan

Code

Accept **Qty**

Reject Qty

Reject Insp. Number Stamp

Sequence ID/ **Work Center ID**

170

QC

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Run Hours

gimostoy.

Memo

180

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

2 mostay

185

HandFinish

Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

Hand Finishing

AND REALODINE AS PER PAR09-043

BL:11-7-4.

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W/O:			WO	RK ORDER CHANGE	S				n ,
Part No:	STEP	PRO	OCEDURE CHAN	GE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Work Order ID 71319

Tuesday, June 28, 2011 10:05:06 AM



Page 6

Item ID:

D3391-023

Accept



Setup Start





Revision ID: Item Name:

Mid Tube Assembly

Start Date:

Required Date: 7/28/2011

6/28/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

0.00

Set Up/

Run Hours

Date:

Date:

Run

Start

Stop

Stop



QC:

Operation

Description

Date: SPC (Y/N):

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Sequence ID/ Work Center ID

190

Powdercoat

Powder Coating

Memo

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

START TIME:

Quality Control

200

QC3- Inspect Part Finish

0.00

0.00

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W/O:			WC	RK ORDER CHANGE	S				9
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Tuesday, June 28, 2011 10:05:06 AM



Page 7

Item ID: **Revision ID:** D3391-023

Accept



Setup Start

Stop



Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Required Date: 7/28/2011

Process Plan:

Operation

Description

Memo

Date: _____

Tooling:

Date:

Date:

Run

Start

Stop



QC:

Date:

SPC (Y/N):

0.00

0.00

Set Up/

Run Hours

Tool ID

Tool # Plan

Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

210

Sequence ID/

Work Center ID

Skidtubes

Skidtubes

Skidtubes

5 .

1- insert D3391-021 into D3391-23

2- insert T-pins into first and third fwd saddle holes

3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364

/4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos

/5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415

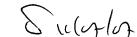
6- deburr, re-alodine and blow out chips

QC5- Inspect part completeness to step on W/O

7- press fit D3591-1 spacers using DT9416 starting from 0.500" side

220





Quality Control

Memo

0.00

DATE STEP PROCEDURE CHANGE By Part No:PAR #: Fault Category:NCR: Yes Resolution:Disposition:QA: N/C C NCR: WORK ORDER NON-CONFORMANCE (NC DATE STEP Description of NC Section A			_	,	. 9					
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Page 8

Tuesday, June 28, 2011 10:05:06 AM

Item ID:

D3391-023

Accept



Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: Tooling:

Date:

Run

Start

Stop

Stop



Required Date: 7/28/2011

QC:

Date: _____ SPC (Y/N): Date:

Tool ID

Code

Tool # Plan

Reject **Qty**

Reject Insp. Number Stamp

Work Center ID 230

Sequence ID/

HandFinish

Hand Finishing

Operation Description

HandFinishing

Memo

Memo

Install Inserts as per Dwg

Run Hours 0.00

Set Up/

0.00

Accept

Qty

N 107/06

240

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Enlostos

250

Packaging

Packaging

Identify as per dwg & Stock Location: w/O

0.00 D412-747-043/B71323

0.00

1 6 1/107/06

Memo

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W/O:			V	ORK ORDER CHANGES					•
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Work Order ID 71319

Tuesday, June 28, 2011 10:05:06 AM



Page 9

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

6/28/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

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Process Plan:

Date: ____

Tooling:

Set Up/

Run Hours

Date:

Run



Required Date: 7/28/2011

QC:

Operation

Description

Date:_____

SPC (Y/N):

Date: Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Sequence ID/ **Work Center ID**

260

QC

QC21- Final Inspection - Work Order Release

Memo

0.00

Quality Control

0.00

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W/O:			WO	RK ORDER CHAN	IGES				5 40 An g 41	· .	
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Picklist Print

Tuesday, June 28, 2011 10:05:03 AM

Work Order ID: 71319

Parent Item: D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 6/28/2011

Start Qty: 1.00

Required Date: 7/28/2011

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\Box$

IPP C 07.03.20 rev F dwg

EC

KJ/EC□

IPP D 07.03.28 re-format

EC

IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD

verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: 1 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP

68958 69893

Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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					37065 50251	<u>Loc (</u>	Oty 82 7 75	Loc Code				/1-6	6-29
D3391-021 Fwd Tube Assembly		Manufactured	No	_/.	$\overline{}$	3/3	Each	0.0000		1	P	11-6	6-29
D3389-1		Manufactured	No		B713	33	Each	0.0000		1			11 loc /30
D3681-1 Spacer		Manufactured	No			160	Each	24.0000	5 — — — — — — — — — — — — — — — — — — —	5		BE.	(40% 30 41/0 7/04
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Picklist Print

Tuesday, June 28, 2011 10:05:04 AM

Page 2

Work Order ID: 71319

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 6/28/2011

Required Date: 7/28/2011

Start Qty: 1.00

Required Qty: 1.00

D3591-1

Bushing

Manufactured

No

210

Each

27.0000

ALS4-1032-130

Purchased

No

Location Loc Qty ST068 27 2 57350 25 66147 230 Each

1,122.000

Loc Code

20

20

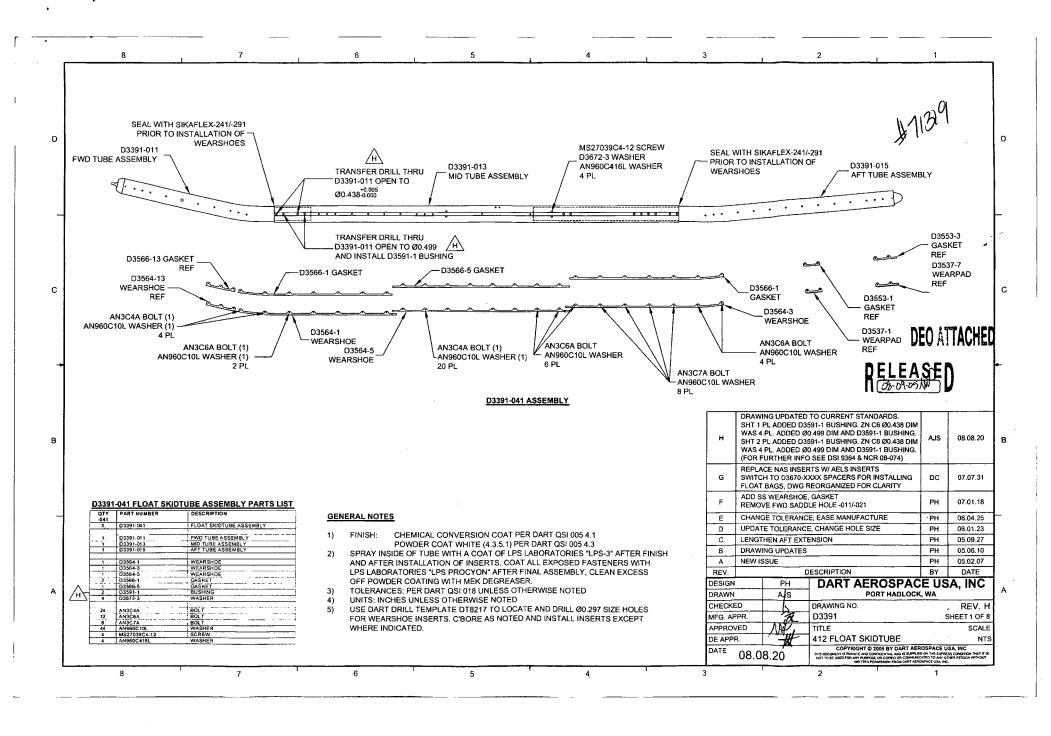
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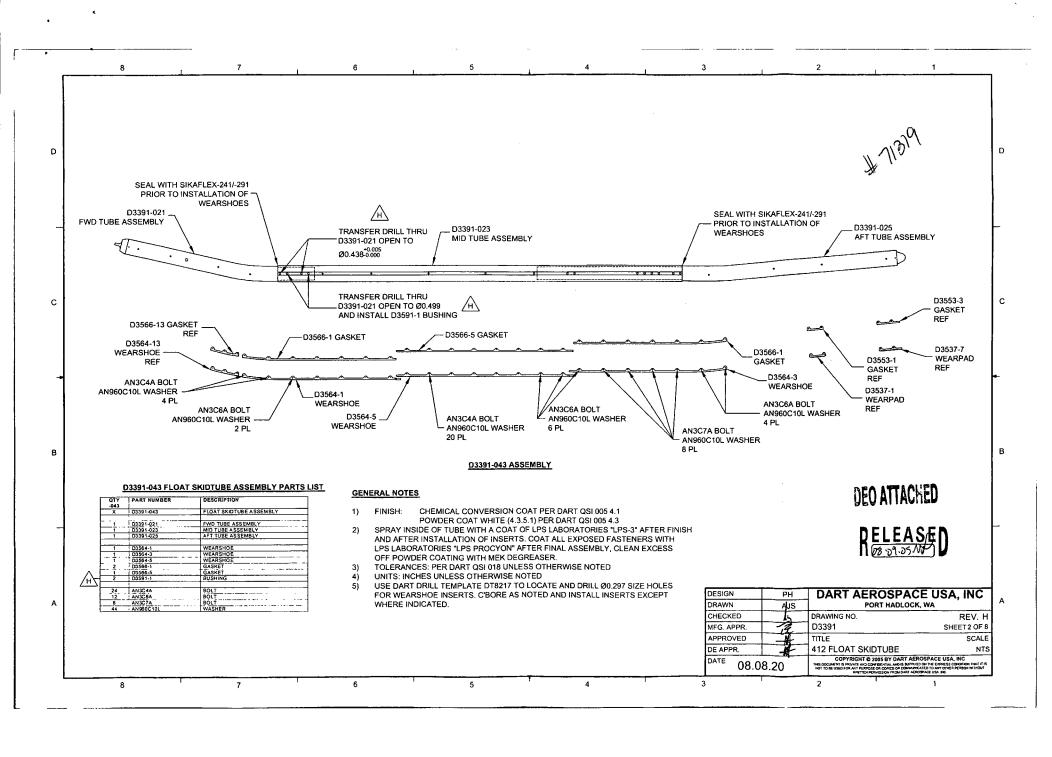
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ST282	1114	
117717	1114	

oc Code

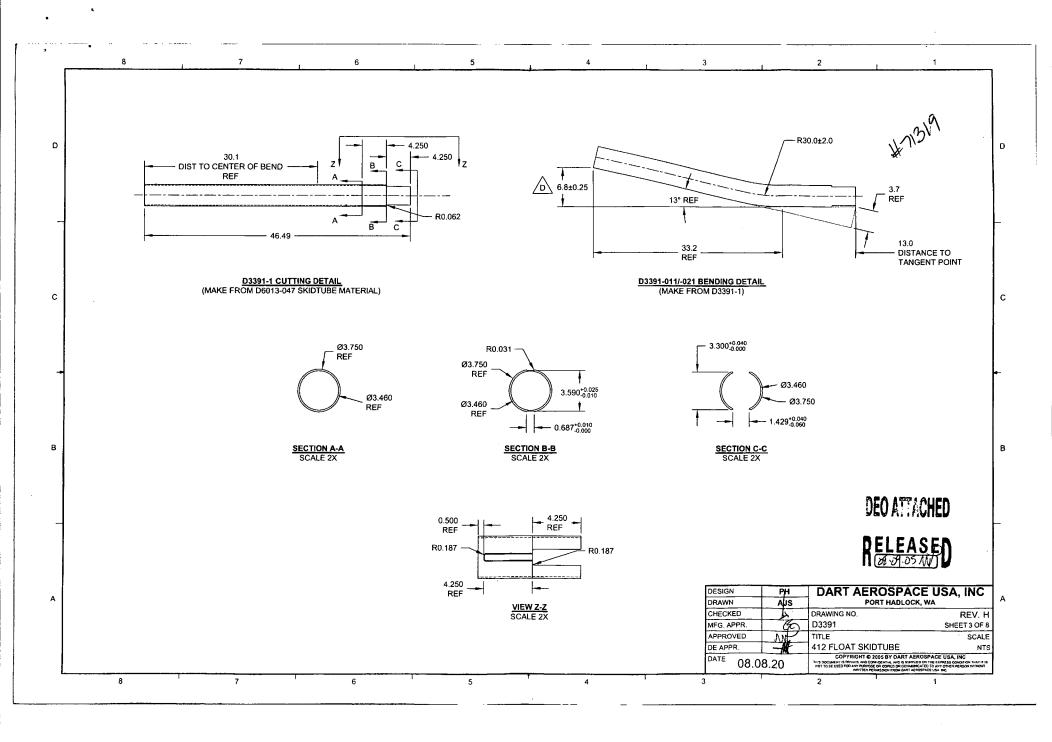
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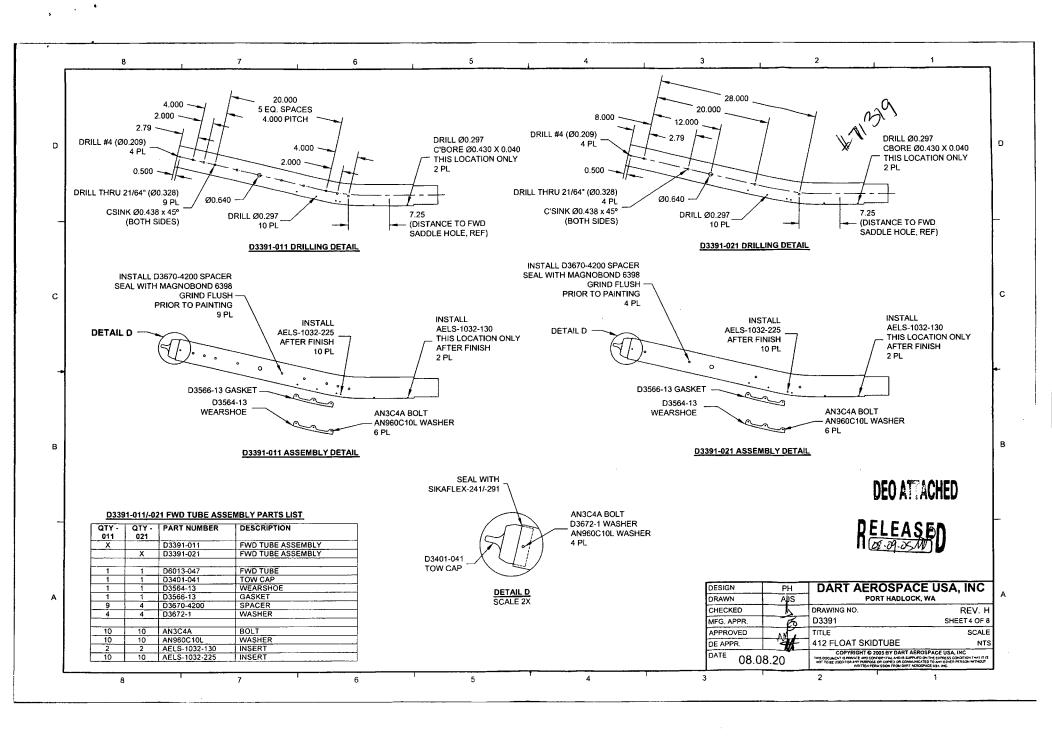
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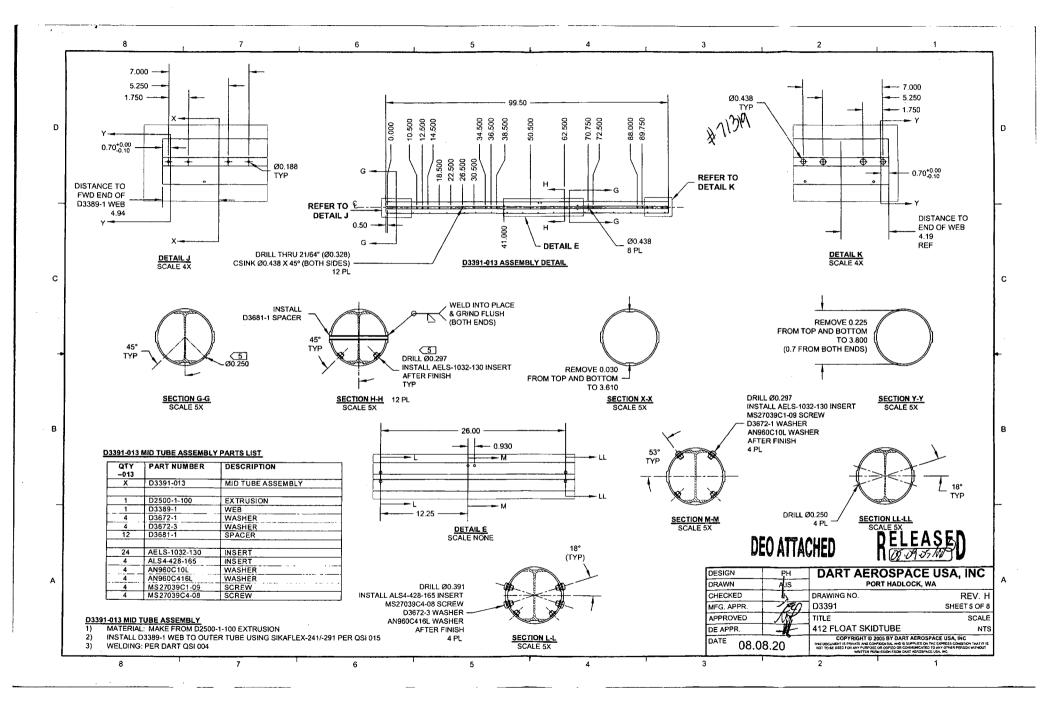
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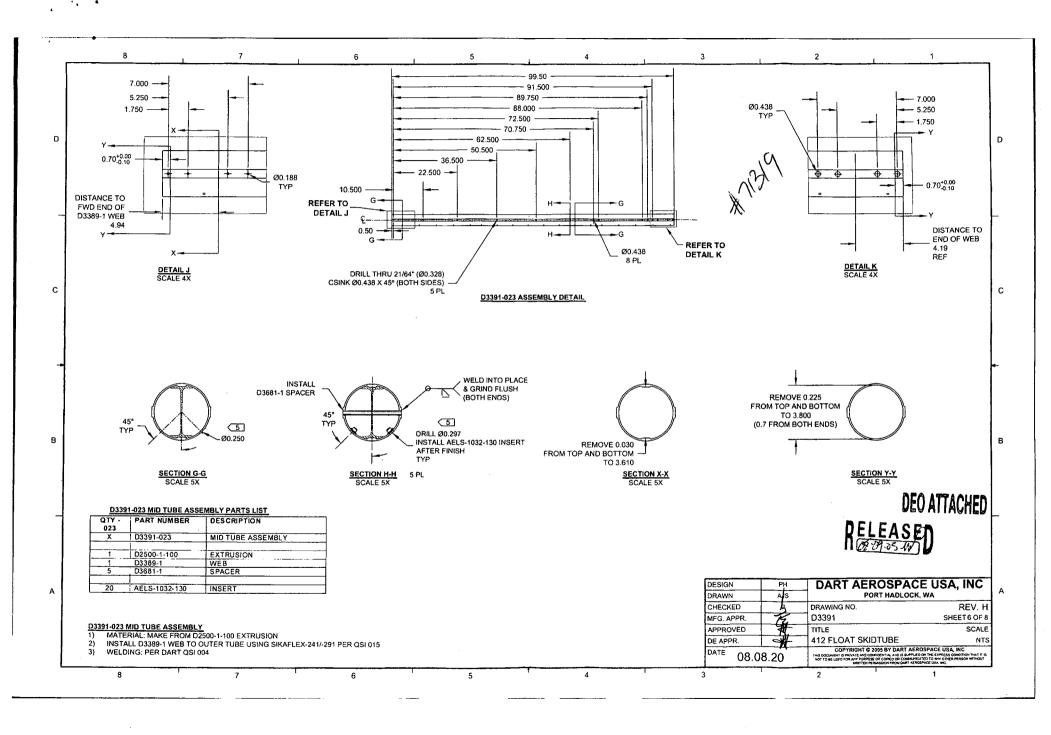
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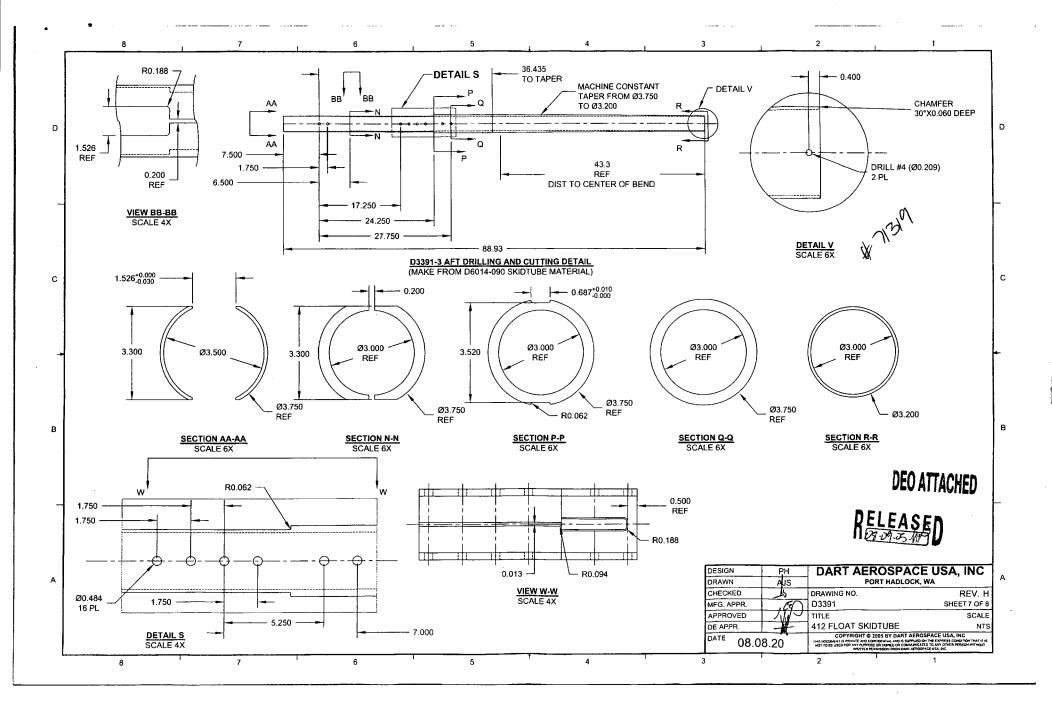
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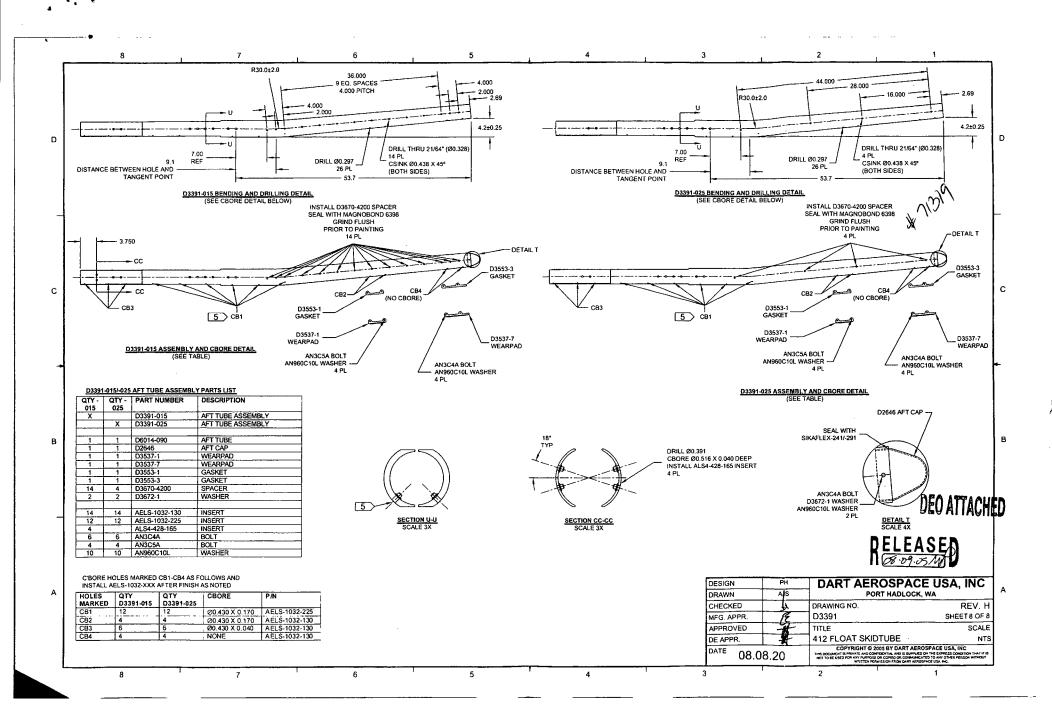


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DRAWING N	1 0.	TITLE		REV. H	DART AEROSPACE US	SA, INC).E.O. NO.	SHEET NO.	SCALE
D3391		412 FLOAT	SKIDTUBE	,	ENGINEERING ORD	DER [03391-H-1	SHEET 1 OF, 1	NTS
DRAWN	Ú.	7	CHECKED	لي	MFG. APPR.	APPF	ROVED NW	DE APPR.	
DATE	09.09.	.23	DATE (04.04.24	DATE 09/09/25	DATE	09/09/30	DATE 09/09/3	5

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



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NO. 256

AWS D17.1.2001 QUALIFICATION TEST RECORD

TEST REQUIREMENTS AND RESULTS

Visual: Penetration:	pass[4]	fail[] fail[]
<u>UNACCEPTABLE</u>		
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[Y] pass[Y] pass[Y] pass[Y] pass[Y]	fail[] fail[]
Qualifier fat flees Welder Borclay (fleet)	_Date of Te _ Date of Te	est Coupon <u>// 06 20</u> est Coupon <u>// 06 20</u>

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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